Form C-122-A
Revised April 20, 1955

Initial Deliverability Test

# NEW MEXICO OIL CONSERVATION COMMISSION

## GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA EXCEPT BARKER DOME STORAGE AREA)

Pool South Blanco Formation Pictured Cliffs County Rio Arriba

Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed 6-25-57

Operator Northwest Production Corp. Lease "g" Well No. 11-11

Unit A Sec. 11 Twp. 26N Rge. 4W Pay Zone: From 3014 To 3030

Casing: OD 7 WT. 20 Set At 3223 Tubing: OD 2-3/8 WT. 4.7 T. Perf.

Produced Through: Casing X Tubing Gas Gravity: Measured .698 Estimated

Date of Flow Test: From 5-24-57 To 6-1-57 * Date S.I.P. Measured 10-8-56

Meter Run Size 2" Orifice Size Type Chart Type Taps

### OBSERVED DATA

| | | | | |
|---|---|---|---|---|
| Flowing casing pressure (Dwt) | psig + 12 = | | psia | (a) |
| Flowing tubing pressure (Dwt) | psig + 12 = | | psia | (b) |
| Flowing meter pressure (Dwt) | psig + 12 = | | psia | (c) |
| Flowing meter pressure (meter reading when Dwt. measurement taken: | | | | |
| Normal chart reading | psig + 12 = | | psia | (d) |
| Square root chart reading ( ) $^2$ x spring constant | = | | psia | (d) |
| Meter error (c) - (d) or (d) - (c) | ± = | | psi | (e) |
| Friction loss, Flowing column to meter: | | | | |
| (b) - (c) Flow through tubing: (a) - (c) Flow through casing | = | | psi | (f) |
| Seven day average static meter pressure (from meter chart): | | | | |
| Normal chart average reading 595 | psig + 12 = | 607 | psia | (g) |
| Square root chart average reading ( ) $^2$ x sp. const. | = | | psia | (g) |
| Corrected seven day avge. meter press. ($p_f$) (g) + (e) | = | | psia | (h) |
| $P_t$ = (h) + (f) | = | 607 | psia | (i) |
| Wellhead casing shut-in pressure (Dwt) 998 | psig + 12 = | 1010 | psia | (j) |
| Wellhead tubing shut-in pressure (Dwt) 998 | psig + 12 = | 1010 | psia | (k) |
| $P_c$ = (j) or (k) whichever well flowed through | = | 1010 | psia | (l) |
| Flowing Temp. (Meter Run) °F + 460 | = | | °Abs | (m) |
| $P_d$ = ½ $P_c$ = ½ (l) | = | 505 | psia | (n) |

### FLOW RATE CALCULATION

$Q =$ 169 (integrated) $\times \left( \frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^n =$ MCF/da

### DELIVERABILITY CALCULATION

$D = Q \left[ \frac{(P_c^2 - P_d^2) = 765.075}{(P_c^2 - P_w^2) = 651.651} \right]^n$ 1.1460 = 194 MCF/da.

### SUMMARY

| | | | |
|---|---|---|---|
| $P_c$ = | 1010 psia | Company | Northwest Production Corp. |
| Q = | 169 Mcf/day | By | Ray Phillips, RAY PHILLIPS |
| $P_w$ = | 607 psia | Title | Asst Mgr, Prod Operations |
| $P_d$ = | 505 psia | Witnessed by | |
| D = | 194 Mcf/day | Company | |

* This is date of completion test.

* Meter error correction factor

### REMARKS OR FRICTION CALCULATIONS

| GL | $(1-e^{-s})$ | $(F_cQ)^2$ | $\frac{(FcQ)^2}{R^2}$ $(1-e^{-s})$ | $Pt^2$ (Column i) | $P_t^2 + R^2$ | $P_w$ |
|---|---|---|---|---|---|---|
| | | | | | | |

RECEIVED
JUN 27 1957
OIL CON. COM.
DIST. 3